

WHAT IS CLAIMED IS:

1. A biomolecular carrier of pharmaceuticals,  
comprising:  
5 a biomolecule carrier bearing molecules that bind to  
a cellular adhesion molecule expressed on endothelial cell; and  
a pharmaceutical.

2. The biomolecular carrier of claim 1, wherein said  
molecules that bind to a cellular adhesion molecule is selected from  
the group consisting of antibodies, antibody fragments and ligands  
that bind to said cellular adhesion molecule .

15

3. The biomolecular carrier of claim 1, wherein said  
carrier is made from a substance selected from the group consisting  
of biodegradable particles, liposomes, microbubbles, polymersomes,  
and synthetic secretory granules.

20

4. The biomolecular carrier of claim 1, wherein said cellular adhesion molecule is selected from the group consisting of ICAM-1, E-selectin, P-selectin, VCAM-1, and PECAM-1.

5

5. The biomolecular carrier of claim 1, wherein said pharmaceutical is an anti-neoplastic compound.

6. A method of treating a pathophysiological state in an individual in need of such treatment, comprising the steps of: irradiating a target tissue or organ in said individual; and administering to said individual the biomolecular carrier of claim 1.

15

10 *W.A.7.* The method of claim 6, wherein said pathophysiological state is selected from the group consisting of cancer, arteriovenous malformations (AVM), macular degeneration and restenosis.

20